Amendments To The Claims

This listing of claims will replace all prior versions, and listing, of claims in the application:

Listing of Claims:

1. (currently amended) Rotating regulating device ~~(1)~~ for the rotation andlor linear displacement of an actuating element ~~(2)~~ of a valve, throttle, blowout preventer or similar, in particular in the field of gas or oil production, with a spindle drive ~~(3)~~ and a drive train ~~(4)~~ rotationally driving the spindle drive, the said drive train exhibiting at least one reduction gear unit ~~(5)~~ and a drive device ~~(6)~~ connected to it for movement, ~~characterised~~ characterized in that the rotating spindle ~~(7)~~ or nut ~~(8)~~ of the spindle drive ~~(3)~~ exhibits at least one engaging element ~~(9, 10)~~, essentially protruding radially outwards, which engages guide slots ~~(11, 12, 13, 14)~~, whereby a first guide slot ~~(11, 13)~~ is fixed relative to a device housing ~~(15)~~ and a second guide slot ~~(12, 14)~~ can be rotated relative to the device housing and/or is supported for displacement in the longitudinal direction of the rotating spindle ~~(16)~~, whereby the guide slots ~~(11, 13, 12, 14)~~ exhibit at least different slopes in the longitudinal direction of the rotating spindle and the movable guide slot ~~(12, 14)~~ is connected for movement to the actuating element ~~(2)~~.

2. (currently amended) Rotating regulating device according to claim 1, ~~characterised~~ characterized in that the guide slots ~~(11, 13, 12, 14)~~ are formed in a first fixed collar ~~(17)~~ which is fixed in the device housing ~~(15)~~, and a rotating collar ~~(18)~~ which is at least supported for rotation relative to the said fixed collar.

3. (currently amended) Rotating regulating device according to claim 1 ~~or 2~~, ~~characterised~~ characterized in that the first and second guide slots ~~(11, 13, 12, 14)~~ are formed in opposing pairs relative to the rotating spindle ~~(7)~~.

4. (currently amended) Rotating regulating device according to claim 1 ~~one of the previous claims~~, ~~characterised~~ characterized in that the rotating spindle ~~(7)~~ is supported so that it can be rotated, but is axially immovable, and the nut ~~(8)~~ can be displaced along the rotating spindle ~~(7)~~ and can be rotated relative to it.

5. (currently amended) Rotating regulating device according to claim 1 ~~one of the previous claims~~, ~~characterised~~ characterized in that the rotating spindle ~~(7)~~ and nut ~~(8)~~ form a ball spindle drive ~~(19)~~.

6. (currently amended) Rotating regulating device according to claim 1~~one of the previous claims~~, ~~characterised~~ characterized in that two engaging elements ~~(9, 10)~~, protruding radially outwards, are fastened to the nut ~~(8)~~, in particular releasably.

7. (currently amended) Rotating regulating device according to claim 1~~one of the previous claims~~, ~~characterised~~ characterized in that the engaging elements ~~(9, 10)~~ are arranged spaced to one another in the circumferential direction ~~(20)~~ of the nut ~~(8)~~, in particular by 180°.

8. (currently amended) Rotating regulating device according to claim 1~~one of the previous claims~~, ~~characterised~~ characterized in that the fixed collar ~~(17)~~ is fixed releasably to an inner wall ~~(21)~~ of the device housing ~~(15)~~.

9, (currently amended) Rotating regulating device according to claim 1~~one of the previous claims~~, ~~characterised~~ characterized in that at least two mounting bolts ~~(22)~~ are fitted from the direction of the device housing ~~(15)~~ into the fixed collar ~~(17)~~ from a radial direction.

10. (currently amended) Rotating regulating device according to claim 1~~one of the previous claims~~, ~~characterized~~ characterized in that the rotating collar ~~(18)~~ can be rotated at its ends ~~(23, 24)~~, but is supported so that it is axially immovable.

11. (currently amended) Rotating regulating device according to claim 1~~one of the previous claims~~, ~~characterised~~ characterized in that the rotating collar ~~(18)~~ is rotationally rigidly connected at its end ~~(23)~~ facing the actuating element ~~(2)~~ to the said actuating element.

12. (currently amended) Rotating regulating device according to claim 1~~one of the previous claims~~, ~~characterised~~ characterized in that the rotating collar ~~(18)~~ exhibits a ring-flange ~~(25)~~ on its front end ~~(23)~~, protruding radially inwards, on which the rotating spindle ~~(7)~~, in particular on a first end ~~(26)~~, is supported rotationally.

13. (currently amended) Rotating regulating device according to claim 1~~one of the previous claims~~, ~~characterised~~ characterized in that the rotating spindle ~~(7)~~ is connected for movement by its second end ~~(27)~~ to the reduction gear unit ~~(5)~~.

14. (currently amended) Rotating regulating device according to claim 1~~one of the previous claims~~, ~~characterised~~ characterized in that the reduction gear unit ~~(5)~~ is formed as a so-called harmonic drive ~~(28)~~.

15. (currently amended) Rotating regulating device according to claim 1~~one of the previous claims~~, ~~characterised~~ characterized in that the flexible, cup-shaped sleeve ~~(29)~~ of the harmonic drive ~~(28)~~ is connected, in particular releasably, to the second end ~~(27)~~ of the rotating spindle ~~(7)~~.

16. (currently amended) Rotating regulating device according to claim 1~~one of the previous claims~~, ~~characterised~~ characterized in that the wave generator ~~(30)~~ of the harmonic drive ~~(28)~~ is connected, in particular releasably, to a driven shaft ~~(31)~~ of the drive train ~~(4)~~.

17. (currently amended) Rotating regulating device according to claim 1~~one of the previous claims~~, ~~characterised~~ characterized in that the driven shaft ~~(31)~~ is composed of different shaft segments ~~(33, 34, 35, 36)~~, arranged one behind the other.

18. (currently amended) Rotating regulating device according to claim 1~~one of the previous claims~~, ~~characterised~~ characterized in that a shaft segment ~~(34)~~ is a spurwheel formed with an outer tooth arrangement ~~(37)~~.

19. (currently amended) Rotating regulating device according to claim 1~~one of the previous claims~~, ~~characterised~~ characterized in that the spurwheel ~~(34)~~ is a worm wheel ~~(40)~~ engaging at least one worm ~~(38, 39)~~ via the outer tooth arrangement ~~(37)~~.

20. (currently amended) Rotating regulating device according to claim 1~~one of the previous claims~~, ~~characterised~~ characterized in that the spurwheel ~~(34)~~ is a helically toothed spurwheel ~~(43)~~ engaging at least one helically toothed chive wheel ~~(41, 42)~~ via the outer tooth arrangement ~~(37)~~.

21. (currently amended) Rotating regulating device according to claim 1~~one of the previous claims~~, ~~characterised~~ characterized in that the shaft segment ~~(35)~~ adjacent to the spurwheel ~~(34)~~ is supported rotationally inside the device housing ~~(5)~~ using pivot bearings ~~(44, 45)~~.

22. (currently amended) Rotating regulating device according to claim 1~~one of the previous claims~~, ~~characterised~~ characterized in that a position sensor ~~(46)~~ is assigned to the shaft segment ~~(36)~~ terminating the driven shaft ~~(31)~~.

23. (currently amended) Rotating regulating device according to claim 1~~one of the previous claims~~, ~~characterised~~ characterized in that the worm ~~(38, 39)~~ is essentially arranged centrally on a drive shaft ~~(47, 48)~~ which is arranged perpendicular to the driven shaft ~~(31)~~.

24. (currently amended) Rotating regulating device according to claim 1~~one of the previous claims~~, ~~characterised~~ characterized in that at least one motor ~~(51, 52)~~, in particular an electric motor, is assigned to both ends ~~(49, 50)~~ of the drive shaft ~~(47, 48)~~.

25. (currently amended) Rotating regulating device according to claim 1~~one of the previous claims~~, ~~characterised~~ characterized in that drive shafts ~~(47, 48)~~ are arranged in pairs opposite relative to the driven shaft ~~(31)~~.

26. (currently amended) Rotating regulating device according to claim 1~~one of the previous claims~~, ~~characterised~~ characterized in that the drive shaft ~~(47, 48)~~ is at least supported floating at one end.

27. (currently amended) Rotating regulating device according to claim 1~~one of the previous claims~~, ~~characterised~~ characterized in that the drive shafts ~~(47, 48, 53, 54)~~ are mechanically synchronised in their rotational movements using a mechanical coupling device ~~(72)~~ with toothed belt ~~(74)~~, chain or similar.

28. (currently amended) Rotating regulating device according to claim 1~~one of the previous claims~~, ~~characterised~~ characterized in that the drive shafts ~~(47, 48, 53, 54)~~ are electronically synchronised in their rotational movement using the motors ~~(51, 52, 56, 57)~~.

29. (currently amended) Rotating regulating device according to claim 1~~one of the previous claims~~, ~~characterised~~ characterized in that for a double helical gear ~~(62)~~ consisting of a helically toothed drive wheel ~~(41, 42)~~ and a helically toothed spurwheel ~~(43)~~, the drive shafts ~~(53, 54)~~ are arranged parallel to the driven shaft ~~(31)~~.

30. (currently amended) Rotating regulating device according to claim 1~~one of the previous claims~~, ~~characterised~~ characterized in that with a double helical gear ~~(62)~~ at least two motors ~~(56, 57)~~ are assigned to an end ~~(55)~~ of the drive shaft ~~(53, 54)~~.

31. (currently amended) Rotating regulating device according to claim 1~~one of the previous claims~~, ~~characterised~~ characterized in that a reduction gear unit ~~(58)~~, in particular a harmonic drive ~~(59)~~, is arranged between the motor ~~(56, 57)~~ and a helically toothed drive wheel ~~(41, 42)~~.

32. (currently amended) Rotating regulating device according to claim 1~~one of the previous claims~~, ~~characterised~~ characterized in that the drive shaft ~~(53, 54)~~ is connected for movement to the flexible, cup-shaped sleeve ~~(60)~~ of the harmonic drive ~~(59)~~ and the helically toothed drive wheel ~~(41, 42)~~ is connected for movement to the wave generator ~~(61)~~.